

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/IB2004/051394

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G02B5/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | US 6 330 110 B2 (NAKAI TAKEHIKO) 11 December 2001 (2001-12-11) cited in the application the whole document | 1-12 |
| A | FR 2 653 903 A (INSTRUMENTS SA) 3 May 1991 (1991-05-03) the whole document | 1-12 |
| A | US 2001/050815 A1 (HAYASHI KOHTARO ET AL) 13 December 2001 (2001-12-13) the whole document | 1-12 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

25 November 2004

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13/12/2004

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Information on patent family members

International Application No

PCT/IB2004/051394

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|-----------------------------|
| US 6330110 | B2 | 16-08-2001 | JP 3472092 B2 02-12-2003 |
| | | | JP 11044808 A 16-02-1999 |
| | | | US 2001013975 A1 16-08-2001 |
| | | | DE 69818583 D1 06-11-2003 |
| | | | DE 69818583 T2 19-08-2004 |
| | | | EP 0895100 A2 03-02-1999 |
| | | | US 6262846 B1 17-07-2001 |
| FR 2653903 | A | 03-05-1991 | FR 2653903 A1 03-05-1991 |
| US 2001050815 | A1 | 13-12-2001 | JP 2001311824 A 09-11-2001 |
| | | | JP 2002006135 A 09-01-2002 |
| | | | JP 2002014213 A 18-01-2002 |